

Project Design Phase
Proposed Solution Template

Date	10 February 2026
Team ID	LTVIP2026TMIDS87433
Project Name	Rain Prediction Pipeline Flask
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Accurate rainfall prediction is difficult due to generalized weather forecasts and lack of user-specific prediction systems, affecting planning and decision-making.
2.	Idea / Solution description	Develop a Flask-based web application integrated with a machine learning model to predict rainfall using user-input weather data and display results in real time.
3.	Novelty / Uniqueness	Provides customized rainfall prediction through ML with a simple web interface, demonstrating end-to-end ML deployment.
4.	Social Impact / Customer Satisfaction	Supports informed decision-making for agriculture and outdoor activities while offering practical ML learning for students.
5.	Business Model (Revenue Model)	Freemium model with basic predictions free and advanced analytics offered via subscription or enterprise integration.
6.	Scalability of the Solution	Can be scaled through cloud deployment, API integration, and enhanced ML models to support larger user bases and datasets.